

PCT/EG2004/000004

**AMENDED CLAIMS**

received by the International Bureau on 20 October 2004 (20.10.04) : claims 1 to 6 have been replaced by claims 1 to 11.

**Amended Claims:**

**I claim the use of the following medically as medicines and medical interventional material:**

1. Inorganic native sulfur in any of its forms as open or cyclic  $S_n$  species, liquid, catenasulfur.  
Where  $n = 6, 7, 9-15, 18$ , and  $20$ , and any other form of elemental inorganic sulfur.
2. A structure having the formula of R- sulfide (R-S).
3. A structure having the formula of R -hydrogen sulfide(R-SH) in inorganic compounds.
4. A structure having the formula of R-thiol (R-SH) in organic compounds,
5. A structure having the formula of Sulfur-R (S-R)
6. A structure having the formula of sulfur nitrogen cations and anions. (R-SN)
7. A structure having the formula of disulfide (RSSR).
8. A structure having the formula of R-dithiocarbamate, R-dithiocaboxylate, R-dithiophosphinate, R- thioxanthate, R- trithiocarbonate.
9. A structure having the formula of R-tetrathiometallate.
10. A structure having the formula of R- dithiolenes.

Where R is independently selected from:

**all acid addition sulfides, acid addition hydrogen sulfides, base addition sulfides and hydrogen sulfides).**

- a. All elements of The Periodic Table of the elements including: Metals, actinide, lanthanides, first, second, and third transition elements series and the halogens ( example: all phosphorus sulphides, all potassium sulfides,

- sulfur chlorides, sulfur amide ( $S_4N^+$ ) tetrasulfur tetranitride,  $S_NN_3$ , compounds etc., ).
- b. Amino acids (any essential or non-essential, primary amines, secondary amines, tertiary amines, arylamines, heterocyclic amines, aromatic amines.
  - c. Lipoproteins, apolipoproteins, lethicines, eicosanoids.
  - d. Fatty acids, alkanes, alkenes, alkynes, aromatics, alkyl halides, haloalkenes, alcohols, ethers, amines, aldehydes, ketones, carboxylic acids, esters, amides, nitriles.
  - e. Isoprenoids, steroids, cholesterol and its biosynthesis steps products.
  - f. Water soluble vitamins and fat soluble vitamins (example: pyridoxin sulfide-thiol, pantothenate sulfide-thiol etc).
  - g. Casein, olivovitelline.
  - h. Ketones, polyhydroxy aldehydes.
  - i. D and L Glyceraldehydes, lactic acid, tartaric acid, arabinose
  - j. Carbohydrates; as Monosaccharides, (including aldehydes, ketones) as trioses, tetroses, pentoses, hexoses, Disaccharides, uronic acids, aric acids, anhydrides, dianhydrides, glycosides, cyclic acetals, aldoses, uloses, aldonic acids,
  - k. Invert sugars (example; dextrose, levulose, etc)
  - l. Glucosamine and glucouronic acid
  - m. Phosphatidic acids, phosphatidylcholines, phosphatidylethanolamines,
  - n. Phosphatidylserines, phosphatidylinositols.
  - o. Hormones and biologic mediators (example: neurotransmitters, adrenalin, amphetamines, dopamine, serotonin, thyroxin).
  - p. Oligomeric proteins (including angiotensin II, vasopressin, oxytocin, bradykinin, gastrin, substance P, and endothelin, etc)
  - q. Bulking agents and sclerosing agents
  - r. Bile acids (example: cholic acid, dexoxy cholic acid, taurocholic acid, glycocholic acid, lithocholic acid, chenodeoxy cholic acid etc).

**11. Plastic of sulfur and all acid addition sulfides, acid addition hydrogen sulfides, base addition sulfides and hydrogen sulfides for the making of all medical interventional material.**

Where Medical interventional material includes (vascular, cardiologic, endovascular, urologic, hepatic, neurologic, gastrointestinal, cardiothoracic, orthopedic)

- Stents, (including endovascular, dilating, urethral, ureteric)
- catheters, ---ostomy tubes,
- Chest tube
- Bulking agents for incontinence, reflux,
- Drains, shunts, nerve sheathing material,
- Tubes (including tracheostomy, grommet)
- Surgical suture material.
- Sieves for venous and arterial thrombosis.
- Plastic bags for blood, urine, and any biologic material.
- Canulas, central venous pressure devices,

- Grafts, (including grafts replacing bone defects and other soft tissue defects post- debulking, or post traumatic or congenital etc.)
- Prosthesis devices (including penile, breast implants, heart valves, etc. ).
- Casts, soft and hard,
- Implants (including absorbable implants)
- Plates and screws, nails,
- Spacers,
- Bone cement.
- Bands for band ligations, and ligations for all medical purposes as fallopian tube ligation, cervical , oeophageal varices etc.
- Sheaths of endoscopy, bed sheets, thermometers, etc